οφεο ο440-01 #2 OIPE

RAW SEQUENCE LISTING DATE: 03/30/2001 PATENT APPLICATION: US/09/802,365 TIME: 11:09:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\1802365.raw

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	6	<120	<120> TITLE OF INVENTION: Methods and Compositions for the															
	7		Treatment and Prevention of Erectile Dysfunction															
			<130> FILE REFERENCE: 1671.003															
			.40> CURRENT APPLICATION NUMBER: US/09/802,365 .41> CURRENT FILING DATE: 2001-03-09															
C>																		
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				PRIOR FILING DATE: 2000-05-11														
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				EQ II ENGTI														
				ENGII		<del>4</del> T												
				RGAN:		Boc	t 211	rua										
				EATUI		bos	Lau.	Lus										
				AME/I		CDS												
				CAT				4411										
				EQUE			(	***)										
				cta			gat	ααα	σσσ	tcc	aaa	acc	ttc	cca	сса	aaa	cac	48
				Leu														10
	34					5		U-1		001	10					15		
	36	ttc	aaa	gat	cca	aaa	cqa	cta	tat	tat		aac	aaa	aaa	ttc	ttc	cta	96
				Asp														
	38		_	_	20	-	_		-	25	-		-	-	30			
	40	cga	atc	cac	cca	gat	ggg	cga	gta	gat	ggg	gta	cga	gaa	aaa	tcc	gat	144
	41	Arg	Ile	His	Pro	Asp	Gly	Arg	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	
•	42			35					40			•		45				
				atc														192
		Pro		Ile	Lys	Leu	Gln		Gln	Ala	Glu	Glu	_	Gly	Val	Val	Ser	
	46		50					55					60					
				ggg														240
			Lys	Gly	Val	Cys		Asn	Arg	Tyr	Leu		Met	Lys	Glu	Asp		
		65					70					75					80	000
				cta														288
		Arg	ьeu	Leu	Ата		ьys	Cys	vaı	Thr		Glu	Cys	Pne	Pne		Glu	
	54 56	~~~	a+ a	~~~	+	85		+-+			90		<b>.</b>	~~~		95	+	226
				gaa Glu														336
	58	AIG	Leu	GIU	100	ASII	ASII	TAT	ASII	105	тут	AIG	ser	Arg	LуS 110	тут	ser	
		taa	+ aa	tat		aaa	at a	222	aaa		~~~	<b>~~</b>	+ = +	222		aaa	003	384
				Tyr														304
	62	Det	TTD	115	var	тта	пеи	пуз	120	TIIT	GTĀ	GTII	т Л т	125	neu	GTĀ	FIO	
		aaa	acc	ggg	cca	aaa	саа	aaa		atc	cta	ttc	cta		atσ	tcc	acc	432
				Gly														774
	66		130	O-1	0	~ <i>1</i>		135	111U			2.110	140		-100	J C 4.		
								133					T-10					





## DATE: 03/30/2001 RAW SEQUENCE LISTING TIME: 11:09:45 PATENT APPLICATION: US/09/802,365

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I802365.raw

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70 145	
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74 <211> LENGTH: 146 75 <212> TYPE: PRT	
76 <213> ORGANISM: Bos taurus	
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81 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu	
82 20 25 30 83 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	
84 35 40 45	
85 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
86 50 55 60	
87 Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly	
88 65 70 75 80 89 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu	
90 85 90 95	
91 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser	
92 100 105 110	
93 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro	
94 115 120 125	
95 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala	
96 130 135 140 97 Lys Ser	
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106 <221> NAME/KEY: CDS 107 <222> LOCATION: (1)(441)	
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114 ttc aag gac ccc aag cgg ctg tac tgc aaa aac ggg ggc ttc ttc ctg	96
115 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu	
116 20 25 30 118 cgc atc cac cgc gac ggc gg gtt gac ggg gtc cgg gag ang agg gac	144
118 cgc atc cac ccc gac ggc cga gtt gac ggg gtc cgg gag aag agc gac 119 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp	144
120 35 40 45	
122 cct cac atc aag cta caa ctt caa gca gaa gag aga gga gtt gtg tct	192
123 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser	
124 50 55 60	
126 atc aaa gga gtg tgt gct aac cgt tac ctg gct atg aag gaa gat gga	240





DATE: 03/30/2001 RAW SEQUENCE LISTING TIME: 11:09:45 PATENT APPLICATION: US/09/802,365

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I802365.raw

127 128		Lys	Gly	Val	Cys	Ala 70	Asn	Arg	Tyr	Leu	Ala 75	Met	Lys	Glu	Asp	Gly 80	
		tta	ctg	gct	tct	aaa	tgt	gtt	acg	gat	gag	tgt	ttc	ttt	ttt	gaa	288
131	Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	
132					85					90					95		
	_	_	_									tca					336
135	Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn		Tyr	Arg	Ser	Arg	_	$\mathtt{Tyr}$	Thr	
136				100					105					110			
	-				_	-		_			_	tat					384
	Ser	Trp	Tyr	Val	Ala	Leu	Lys	_	Thr	Gly	Gln	Tyr	_	Leu	Gly	Ser	
140			115					120					125				
												ctt					432
	Lys		Gly	Pro	Gly	Gln	_	Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	
144		130					135					140					
	aag -	-	-														441
	Lys	Ser	*														
	145																
	<210																
	<211				1 b												
	<212				Home		ai an	_									
	<213 <400					Sap	) Tells	5									
						7 cn	C117	C111	Sor	C137	7 l s	Phe	Dro	Dro	C1v	uic	
158	1	ніа	пеп	PIO	5 5	ASP	GIY	GIY	SEI	10	AIG	FIIE	PIO	PIO	15	птэ	
		T.vc	Δen	Dro	~	Δra	Τ.Δ11	ጥኒኒ	Cve		Δcn	Gly	Glv	Dho		T.em	
160	1 110	כעם	пор	20	цуз	пта	ncu	1 Y 1	25	1173	AJII	OLY	OLY	30	1110	пси	
	Ara	Tle	His	_	Asp	Glv	Arσ	Val		Glv	Va 1	Arg	Glu		Ser	Asp	
162	5		35					40				9	45	_10			
	Pro	His		Lvs	Leu	Gln	Leu		Ala	Glu	Glu	Arg	Glv	Val	Val	Ser	
164		50		<b>4</b>			55					60	- 4				
165	Ile	Lys	Gly	Val	Cys	Ala	Asn	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	
166		_	-		•	70		-	-		75		-		-	80	
167	Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	
168					85					90					95		
169	Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr	
170				100					105					110			
171	Ser	${\tt Trp}$	Tyr	Val	Ala	Leu	Lys	Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	
172			115					120					125				
												Leu		Met	Ser	Ala	
							135					140					
	Lys	Ser															
176		. =-			_												
	<210																
	<211				8												
	<212				D -												
	<213				SOB	Laui	.นร										
	<220				CDC												
	<221 <222					, 1	681										
T02	~444	· / L(	CHII	: NO.	(T).	(4	:00)										



## RAW SEQUENCE LISTING DATE: 03/30/2001 PATENT APPLICATION: US/09/802,365 TIME: 11:09:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\I802365.raw

187	187 <400> SEQUENCE:				5												
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	_	-	Ala	-				_	_								
190	1			-	5					10					15	-	
192	ggg	tcc	ggg	gcc	ttc	cca	cca	ggg	cac	ttc	aaa	gat	cca	aaa	cga	cta	96
			Gly	-								-			_		
194	-		_	20				-	25		-	-		30			
	tat	tgt	aaa	aac	ggg	ggg	ttc	ttc	cta	cga	atc	cac	cca	gat	ggg	cga	144
			Lys														
198	-	•	35		-	-		40					45	-	-		
200	gta	gat	ggg	gta	cga	gaa	aaa	tcc	gat	cca	cac	atc	aaa	cta	caa	cta	192
	_	-	Gly	_	_	_			_								
202		50	-				55		-			60	-				
204	caa	qcc	gaa	gaa	cqa	qqq	gta	qta	tcc	atc	aaa	qqq	qta	tqt	qcc	aac	240
		-	Ğlu	_	_		_	-					-	_	-		
206	65				_	70					75	_		-		80	
	cqa	tat	cta	qcc	atq	aaa	qaa	gat	aaa	cqa	cta	cta	qcc	tcc	aaa		288
	_		Leu	-	-		_	_		_			-			_	
210		•			85	-		-	-	90					95	•	
	qta	acc	gat	gaa	tat	ttc	ttc	ttc	qaa	cqa	cta	qaa	tcc	aac	aac	tat	336
	_		Asp	-	_				-	_		-					
214			-	100	-				105	,				110		•	
216	aac	acc	tat	cqa	tcc	cqa	aaa	tat	tcc	tcc	taa	tat	qta	qcc	cta	aaa	384
			Tyr	_		_							-				
218			115	,		,	1	120		-	_	1	125			_	
	cqa	acc	ggg	caa	tat	aaa	cta	aaa	ccá	aaa	acc	aaa	cca	aaa	caa	aaa	432
			Gly														
222		130	4		- 1 -	_1	135	2				140				_1 -	
	qcc		cta	ttc	cta	cca	atq	tcc	qcc	aaa	tcc	taa					468
	-		Leu				_		-			*					•
226						150				-	155						
229	<210	)> SI	EQ II	ONO:	: 6												
			ENGTH														
			PE:														
232	<213	3> OI	RGANI	SM:	Bos	tauı	rus										
234	<400	)> SI	EQUEN	ICE:	6												
235	Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Glu	Asp	Gly	
236	1			_	5					10					15	_	
237	Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	Phe	Lys	Asp	Pro	Lys	Arg	Leu	
238	_		_	20				_	25		_	_		30	_		
239	Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg	
240		_	35		_	_		40		_			45	_	_	_	
241	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu	
242		50			-		55		•			60					
243	Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	Ile	Lys	Gly	Val	Cys	Ala	Asn	
244					-	70					75	-				80	
245	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys	
246	-				85	•		_	_	90					95		
247	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr	
			_		_					-						_	

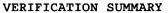




## DATE: 03/30/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/802,365 TIME: 11:09:45

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I802365.raw

248 100	105 110
249 Asn Thr Tyr Arg Ser Arg Lys Tyr	Ser Ser Trp Tyr Val Ala Leu Lys
250 115 120	125
251 Arg Thr Gly Gln Tyr Lys Leu Gly	Pro Lys Thr Gly Pro Gly Gln Lys
252 130 135	140
253 Ala Ile Leu Phe Leu Pro Met Ser	Ala Lys Ser
254 145 150	155
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257 <211> LENGTH: 474	
258 <212> TYPE: DNA	
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262 <221> NAME/KEY: CDS	
263 <222> LOCATION: (1)(468)	
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271 Gly Ser Gly Ala Phe Pro Pro Gly	
272 20	25 30 ctg cgc atc cac ccc gac ggc cga 144
274 tac tgc aaa aac ggg ggc ttc ttc 275 Tyr Cys Lys Asn Gly Gly Phe Phe	
276 35 40	45
278 gtt gac ggg gtc cgg gag aag agc	- <del>-</del>
279 Val Asp Gly Val Arg Glu Lys Ser	
280 50 55	60
282 caa gca gaa gag aga gga gtt gtg	
283 Gln Ala Glu Glu Arg Gly Val Val	
284 65 70	75 80
286 cgt tac ctg gct atg aag gaa gat	gga aga tta ctg gct tct aaa tgt 288
287 Arg Tyr Leu Ala Met Lys Glu Asp	
288 85	90 95
290 gtt acg gat gag tgt ttc ttt ttt	gaa cga ttg gaa tct aat aac tac 336
291 Val Thr Asp Glu Cys Phe Phe Phe	Glu Arg Leu Glu Ser Asn Asn Tyr
292 100	105 110
294 aat act tac cgg tca agg aaa tac	
295 Asn Thr Tyr Arg Ser Arg Lys Tyr	
296 115 120	125
298 cga act ggg cag tat aaa ctt gga	tcc aaa aca gga cct ggg cag aaa 432
299 Arg Thr Gly Gln Tyr Lys Leu Gly	
300 130 135	140
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308 <211> LENGTH: 155 309 <212> TYPE: PRT	
310 <213> ORGANISM: Homo sapiens	
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DATE: 03/30/2001 TIME: 11:09:46 PATENT APPLICATION: US/09/802,365

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I802365.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date